

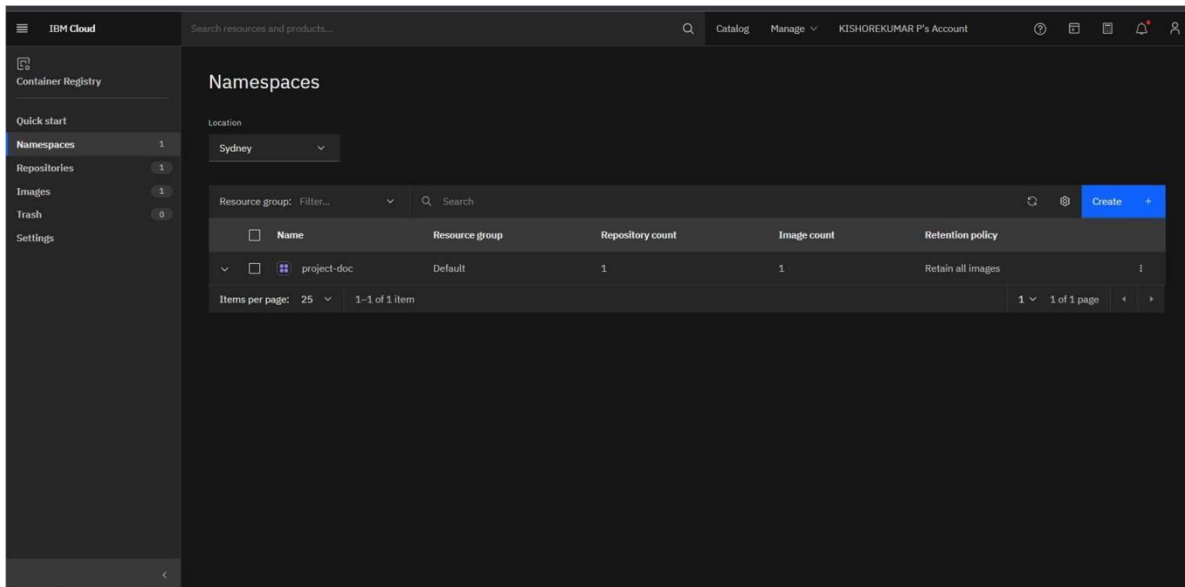
## ASSIGNMENT 4

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Marks	2 marks

### **QUESTIONS:**

1. Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
3. Create a IBM container registry and deploy helloworld app or jobportalapp.
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

## SCREENSHOTS:



```
C:\Windows\System32\cmd.exe

C:\user\assignment>ibmcloud cr login
Logging 'docker' in to 'au.icr.io'...
Logged in to 'au.icr.io'.

C:\user\assignment>docker tag project-doc au.icr.io/project-doc/repo:test1
Error response from daemon: No such image: project-doc:latest

C:\user\assignment>docker build -t assignment .
[+] Building 3.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 32B
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.6
=> [auth] library/python:pull token for registry-1.docker.io
=> [3/5] FROM docker.io/library/python:3.6@sha256:f0652afaf08c25f0d22354d5670892591067aa0026a77a
=> [internal] load build context
=> transferring context: 160B
=> CACHED [2/5] WORKDIR /app
=> CACHED [3/5] ADD . /app
=> CACHED [4/5] COPY requirements.txt /app
=> CACHED [5/5] RUN python -m pip install -r requirements.txt
=> exporting to image
=> exporting layers
=> writing image sha256:40b304f2666c841b58d920042a0774f09dcf629a4b5f5c75d6d09005fdb22d3
=> naming to docker.io/library/assignment

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\user\assignment>docker tag assignment au.icr.io/project-doc/repo:test1

C:\user\assignment>docker push au.icr.io/project-doc/repo:test1
The push refers to repository [au.icr.io/project-doc/repo]
5f4b41b1f1eb: Pushed
1c159555db7: Pushed
30741ec118dc: Pushed
ad0bcf297434: Pushed
a4c808c19f6: Pushed
0be9f69e08be: Pushed
3e607d9ef9f: Pushed
1e18e7e1fcc2: Pushed
c3a0d593ed24: Pushed
2da504ed30e4: Pushed
8bf42db8de72: Pushed
31892cc314cb: Pushed
11936051f93b: Pushed
test1: digest: sha256:f3c0bdfc766202e6a2cdc06dcff3e17521a4a79414bdfd2c3747933a35b2366f size: 3050

C:\user\assignment>
```

```
C:\Windows\System32\cmd.exe - docker run -p 8080:8080 assignment
C:\user\assignment>docker run -p 8080:8080 assignment
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 780-711-189
```

